

CURRICULUM VITAE

CHRISTOS A. KARAVITIS

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GENERAL

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- https://w1.aua.gr/afp/wp-content/uploads/sites/3/2025/03/CV_CHRISTOS-KARAVITIS-EN-2025.pdf

CHILDREN: One son

PROFESSION: Dean, School of Environment & Agricultural Engineering, Agricultural University of Athens, Professor, Water Resources Management (retired 01/09/2025)

EDUCATION:

1993 Post Doctorate, University of California at Berkeley, CA, and Dep. of Civil Engineering, Colorado State University, U.S.A, in Engineered Closed Ecosystem for a Lunar Base, CEISS, with National Aeronautics and Space Administration (N.A.S.A.), Researcher Engineering Water Systems Planning, Water Management Decision Support System and related ICT tools in a lunar base.

1992 Ph. D., Civil Engineering, Water Resources Planning and Management, College of Engineering, Colorado State University, Fort Collins, Colorado, USA

1987 M.Sc., Agricultural Engineering, Groundwater management, College of Engineering, Colorado State University, Fort Collins, Colorado, USA.

1983 B.Sc., Agricultural Engineering and Land Reclamation, Agricultural University of Athens, Athens, Greece.

LANGUAGES: Greek (native language), English (Fluent) – French (Diplôme des Etudes Supérieures).

MEMBER: (Full Member since 1994):
American Society of Civil Engineers, ASCE .
International Water Resources Association (IWRA),
Geotechnical Chambers of Greece (GEOTEE), member of
the Central Advisory Board of the Geotechnical
Chambers of Greece for Hydraulic Works.

1. CURRICULUM VITAE SYNOPSIS

Christos Alexander Karavitis (retired 01/09/2025) is the Dean of the School of Environment and Agricultural Engineering in the Agricultural University of Athens; Ph.D., Civil Engineering (CSU, USA), Post Doctorate research, University of California at Berkeley, CA, USA; M.Sc. Agricultural Engineering (CSU, USA). Professor Water Resources Management, Department of Natural Resources and Agricultural Engineering, Agricultural University of Athens, Greece, and Professor Affiliate in Water Resources Management, Dep. of Civil and Environmental Engineering, Colorado State University, Fort Collins, (Drought and Flood Management, Climate change and Risk Management, Water Resources and Environmental Management in stress conditions and Water Resources Management in times of crises (drought, desertification, floods), waste water works, water recycling, and reuse technologies, water desalination etc. His interests also include the information technology applications in water resources (expert systems, knowledge based and generally Decision Support Systems) and Trans-boundary water management etc. He has participated as research leader or project coordinator for more than 25 years in many educational and research projects in Europe (Drone Reforestation, **Motor oil, S.A., Hellenic Industrial Property Organization**, Training Services for Drainage Boards (DBs) **World Bank** to Ministry of Agriculture, Albania, **EC funded**: CLIMATE CHANGE RISK ASSESSMENT OF CYPRUS, COROADO, DESIRE, DMCSEE, LOLaqua, IMAGE, MELIA, NOSTRUM, RAMFLOOD, ARID CLUSTER, DESERT-LINKS, AUTOHAZARD – PRO, WATERSTRATEGYMAN, PESERA, MEDALUS, etc), as well as, in USA (NSF, NASA, USACE projects, etc.), Latin America, China, Asia and Africa. He is a full member of the American Society of Civil Engineers (ASCE), the Geotechnical Changers of Greece (member of the Central Advisory Board of the Geotechnical Changers of Greece for Hydraulic Works) and the International Water Resources Association (IWRA). Noted among others is his participation in some of the major water resources development projects in Greece in recent years including the study for the **Achelous river diversion**, the **Euenos dam for the water supply of Metropolitan Athens**, the new **Athens International Airport** storm water drainage system, the **Water supply dams of Patras Municipality**, and the general layout of the **2004 Olympic Games venues of Athens Coastal Zone** (p.33). Finally, since 1998 he is serving as an Expert and Evaluator for the European Commission. C. A. Karavitis has published many articles and studies in accredited international journals and conferences as well as, reports for the **European Commission's** and National research Projects.

2. ACADEMIC RECORD

2004 - Today	Professor (2022), Associate Professor (2018), Tenured Assistant Professor (2016), Assistant Professor (2011), Lecturer (2004). Teaching and Research in the Department of Natural Resources Development & Agricultural Engineering, Agricultural University of Athens, namely: Water Resources Management, Drought management, Environmental Management, Contingency Planning and Technology Forecasting, Solid waste Management – Waste Water systems design, Waste Water recycling and reuse, Large Hydraulic Structures, Agricultural Hydraulics-Flood Control Infrastructure,, etc. (retired 09/2025)
2015 - Today	Team of Experts Leader, Training Services for Drainage Boards (DBs) Contract No MAFCP/CS/009, World Bank to Ministry of Agriculture Rural Development and Water Administration, Albania. Training Modules development on: “Water Resources Management”, “Dam and Flood Protection Works Operation and Maintenance”, “Pumping Stations Operation and Maintenance”, “Adaptation Planning to Climate in the Water Sector”, “Participatory Water Infrastructure Rehabilitation and Improvement”, Tirana, Albania.
2009 - Today	Visiting Professor, Master Courses: “Water Resources Management”, “Water resources systems analysis”, “Trans-boundary water body Management”, “Technology Assessment”, “Decision Making in water resources”, Joint Diploma M. Sc. Course “Lowland Agricultural water management (LOLaqua). Faculty of Agriculture in Novi Sad and Belgrade, Serbia.
1994 -Today	Professor affiliate, Water Resources Planning and Management, Department of Civil and Environmental Engineering, Colorado State University, Fort Collins, Colorado, U.S.A.
2001 - 2015	Visiting Professor, Post-graduate course “Water resources Management”, Spring Semester, Department of Chemical Engineering, National Technical University of Athens and University of Piraeus, Athens, Greece.
1995 - 96 and 1994 - 95	Visiting Lecturer, Water Resources Planning and Management, Department of Natural Resources Development and Agricultural Engineering, Agricultural University of Athens, Greece.

1992 -1994	Post-Doctoral Fellow/Research Associate, Department of Civil Engineering, Colorado State University, Fort Collins, Colorado, U.S.A.
1990 -1992	Research Associate, Department of Civil Engineering, Colorado State University, Fort Collins, Colorado, U.S.A.
1988 - 1990	Research and Teaching Assistant, Department of Civil Engineering, Colorado State University, Fort Collins, Colorado, U.S.A.

3. INTERNATIONAL ACTIVITIES AND EXPERTISE

2025	Expert participant on the Workshop: US Department of Agriculture, FOREST SERVICE - Workshop on Fire Danger Rating Systems , Conferences Amphitheater, February 17-20, Agricultural University of Athens, Athens, Hellas.
2024	Principal Investigator and Key Panel Speaker TECHNOLOGY IN THE FIGHT AGAINST FIRES. Inventions help us build a better world for the project: Pilot Innovative Reforestation Application using UAV (Unmanned Aerial Vehicle) in the Attica Region – UAV Reforestation. , Exec. Organizer Rania Zacharopoulou, Hellenic Industrial Property Organization . March 12, Hall 13, Zappeion Megaron, Athens, Hellas.
2023	Co-ordinator and head investigator, with Michael Liaros, Ioannis Papanikolaou, Emmanouil Psomiadis, Konstantinos Misialis, Konstantinos D. Kalampokidis, Palaiologos Palaiologou, Despina Paitaridou, Sotiria Frangou, Simoni Alexiou, Dimitrios Stefanakis. December, 2023. Pilot Innovative Implementation of Integrated Reforestation Methodologies Using UAVs (Unmanned Aerial Vehicle-Drone Seeding). «Drone technology in the implementation, supervision and management of forest projects", Athenaeum Grand Hotel, Athens, Hellas
2022	Evaluator and expert in the European Committee Research Proposals, Research Directorate General, EASME, Research Programme "Horizon 2022" , European Commission, March 06-14, and April 04-08.
2020-2021	Independent Expert in the Technical Review of the Horizon 2020 projects, European Commission, Executive Agency for Small and Medium-sized Enterprises (EASME) , H2020 Environment and Resources, 17/12/2020, 06/01/2021 and 02-05 February 2021.

- 2018 Expert participant on the **Workshop on Projects for Policy for Urban Water Management (P4P-UWM)** European Commission, Directorate-General For Research & Innovation, Directorate I - Climate Action and Resource Efficiency, I.2 - Eco-innovation, Brussels, 11-12 September 2018.
- 2018 Evaluator and expert in the European Committee Research Proposals, **Research Directorate General, EASME, Research Programme "Horizon 2020"**, European Commission, Brussels, Belgium, April 9-13.
- 2017 Meeting on **the potential of COROADO web based Expert System and its possible expansion in other ICT tool applications**, IBM Systems Technology Development ISG, IBM Executive Briefing Center, **Poughkeepsie, NY, USA**, 14-22nd and 27-28th December.
- 2017 **Expert participant** in the meeting **WSSTP Brokerage Event- WSSTP Working Groups Meetings**, EC Water Supply and Sanitation Technology Platform, Brussels, 29 -30th November 2017.
- 2017 **Expert participant** in the meeting **Boosting Research & Innovation in the Water Sector: The Impact of EU-funded actions**, EIP Water Innovation Conference – Side Event Alfândega Porto Congress Centre, – PORTO, 29 September- 1 October 2017.
- 2017 Expert participant in the **Workshop on application of the R&I Tool for Better Regulation in the European Commission's policy initiative on Water Reuse**, European Commission, Directorate-General For Research & Innovation, Directorate I - Climate Action and Resource Efficiency, I.2 - Eco-innovation, Brussels, May 31st 2017.
- 2016 Meeting for **ICT Tool Applications and Smart Water Systems**, Bill & Melinda Gates Hall, Faculty of Computing and Information Science, Cornell University, Ithaca, NY, USA, October 26, 2016.
- 2016 **Expert Evaluator** in the **World Competition F-1 for Schools** Hyatt Hotel Conference Center, Austin, Texas, USA, October 14-24th, 2016.
- 2016 **Expert and Evaluator in PRIMA** Impact Assessment Stakeholder Event, European Commission and Malta Council for Science and Technology (MCST), Main Hall, Villa Bighi, Kalkara KKR1320 – Malta, March 17, 2016.

- 2015 **Evaluation Procedures Chief Independent Observer,** Water Works 2014 ERA-NET Co-funded Call, Research Programme “Horizon 2020”, European Commission, and Water JPI, Research and Innovation for Developing Technological Solutions and Services for Water Systems, Final stage, October 29-30, Lisbon, Portugal.
- 2015 **Evaluation Procedures Chief Independent Observer,** Water Works 2014 ERA-NET Co-funded Call, Research Programme “Horizon 2020”, European Commission, and Water JPI, Research and Innovation for Developing Technological Solutions and Services for Water Systems, 1st stage, July 6th – 8th, Lisbon, Portugal.
- 2015 Workshop Coordinator on Water recycling and reuse technologies and Management in Mexico City, Mexico **COROADO Project, Technologies for Water Recycling and Reuse in Latin America, European Commission,** Sheraton Maria Isabel,, Mexico City, June 20th - 27th 2015, Mexico City, Mexico.
- 2014 Workshop Coordinator on Water recycling and reuse technologies and Management **COROADO Project, Technologies for Water Recycling and Reuse in Latin America, European Commission,** Campus Lo Contador, Auditorio Sergio Larraín, Pontificia Universidad Católica de Chile, December 1st - 6th 2014, Santiago, Chile.
- 2014 Evaluator and expert in European Committee Research Projects, **Research Directorate General, Research Programme “Horizon 2020”, European Commission,** Brussels, Belgium, May 15-19.
- 2013 Workshop Coordinator on Water recycling and reuse technologies and Management in Cordoba, Argentina **COROADO Project, Technologies for Water Recycling and Reuse in Latin American Context FP7, European Commission,** 26th -29th of November 2013, Cordoba, Argentina.
- 2012 Workshop Coordinator on Water recycling and reuse technologies and management in in Sao Paolo, Brazil, **COROADO Project, Technologies for Water Recycling and Reuse in Latin American Context FP7, European Commission,** 7th to 11th May 2012, Sao Paulo, Brazil.
- 2012 Evaluator and expert in European Committee Research Projects, **Research Directorate General, Research Programme “Information Technology and Water**

- management”, FP7, European Commission, Brussels, Belgium, March 5-8.**
- 2010 Evaluator and expert in European Committee Research Projects, **Research Directorate General, Research Programme, FP7, European Commission**, Brussels, Belgium, March 10-17.
- 2009 Expert participant in WOCAT/DESIRE symposium & 4th plenary meeting DESIRE, **Assessing Benefits of Soil Land Management – key for success**, Venue: University Mohammed V Agdal, Faculty of Human Sciences, Rabat, Morocco, October 19th - 24th.
- 2009 National Expert in **WMO - UNCCD Drought Management Centre for Southeastern Europe (DMCSEE)**, Ljubljana, Slovenia, 6 - 8 April.
- 2007 National Expert in **WMO - UNCCD Drought Management Centre for Southeastern Europe (DMCSEE)**, Ljubljana, Slovenia, 17 - 20 April.
- 2007 Expert in NOSTRUM-DSS Science and Policy Workshop, CIHEAM, Bari, Italy, February 15-16.
- 2006 Expert in Water Directors Meeting, **Conference of the Water Directors of the Euro-Mediterranean and Southeastern European Countries**, Athens, Greece. November 6-7.
- 2006 Evaluator and expert in European Committee Research Projects, **Research Directorate General, Research Programme”, FP6, European Commission**, Brussels, Belgium, March 21-24.
- 2005 Expert in EU Water Directors Group, European Committee, **Water Scarcity and Drought Policy**, Pisouri, Cyprus. May, 12-13.
- 2004 Expert in EU Water Directors Group, European Committee, **Water Scarcity and Drought Policy**, Palermo, Sicily. October 8-9.
- 2004 Expert in EU Water Directors Group, European Committee, **Water Scarcity and Drought Policy**, Paris, France, 12 - 13 September.
- 2004 Expert in EU Water Directors Group, European Committee, **Water Scarcity and Drought Policy**, Brussels, Belgium, June 16-17.

- 2004 Analysis and Results from the Stakeholders Forum. In: ***International Conference on Water Resources Management in Water Stressed Environments. The case of Islands.*** E.C. and Society in Island Biosphere Reserves. La Palma, Canary Islands, Spain. 1 – 4 February.
- 2003 Expert and Rapporteur ***Arid Cluster – towards unifying approaches Water Strategy Management Project Workshop Meeting***, Ecole Nationale des Ponts et Chaussées, Paris, France., October 8-9.
- 2002 Expert and Rapporteur ***Policies and tools for Sustainable Water Management in the EU, International Conference***, Island of San Servolo, Venice, Italy., November 21-23.
- 2002 - Registered Reviewer in Scientific Journals in Natural Resources Management (formal invitation 4585/18.10.02, IWRA).
- 2001 Expert, National Representative, **European Commission, NEDIES Project Ispra Meeting on Lessons Learn from Flood Disasters, Risk Management and Decision Support Unit**, JRC Ispra, Milano, Italy. 27 - 28 September 2001
- 2001 Evaluator and Expert for the Research projects RTD's of the European Union, **DG XII, Research Directorate General, Research Programme “ Environment and Sustainable Management”, European Commission**, Brussels, Belgium, March 21-28.
- 2000 Evaluator and Expert for the Research projects RTD's of the European Union, **DG XII “Key Action Water and Environmental Sustainability”, European Commission, DG XII**, Brussels, Belgium, March 19-30.
- 1999 Evaluator and Expert for the Research projects RTD of the European Union, **DG XII “Key Action Water and Environmental Sustainability”, European Commission, DG XII**, Brussels, Belgium, July 12-21.
- 1995 Expert in the International Forum ***‘Institutional Dimensions of Water Resources Management’***, Comparative analysis in the European Union and the United States. Congress Center, **Instituto Superior Tecnico**, Lisboa, Portugal.
- 1994 Participation in ***“Sustainability of Irrigated Agriculture ”, NATO Advanced Research Workshop***, Vimeiro, Portugal.

- 1991 - 1992 Water Resources Management Expert. ***"Water and Politics in the Balkans and the Middle East"***, Mc Arthur Foundation, U.S.A.
- 1991 - 1992 Research Associate, **United States Army Corps of Engineers, U.S.A.**
- 1989 - 1992 Participation in the annual Congress ***"Water Resources Management"***, **United States Bureau of Reclamation (U.S.B.R.) and Colorado State University**, Marriott Congress Center, Denver South, Co. U.S.A.
- 1989 - 1991 Research Associate **National Science Foundation, (N.S.F.), Washington, D.C., U.S.A.** (Contract No CES - 8619057) for ***Computer Information Systems in Water Resources Management.***
- 1989 - 1993 Research Assistant, Post Doctorate, Project (Prof. E.C. Vlachos and Sadeh, W. Z). for ***Engineered Closed Ecosystem for a Lunar Base, CEISS, National Aeronautics and Space Administration, (N.A.S.A.),*** Washington, D.C., U.S.A., Dept. of Civil Engineering, Colorado State University, Fort Collins, CO, and Dept. of Civil Engineering, University of California at Berkeley, CA, U.S.A. (1991-1993)
- 1984 - 1985 Research Consultant ***"Baski Co", Lakewood, Colorado. "Study of the Denver Basin Aquifers"***.

4. RESEARCH

	DURATION	PROJECT
Greece	2021-2023	Pilot Innovative Reforestation Application using UAV (Unmanned Aerial Vehicle) in the Attica Region – UAV Reforestation. Funding MOTOR-OIL S.A., Partners ELGO DIMITRA/IMDO, Project Coordinator C. A. Karavitis (2021-2023)
Greece	2020	Climate Change Risk Analysis and Assessment, Sector: Agriculture – Livestock, Preparation of the Regional Plan for Adaptation to Climate Change (PESPKA), 2020. Funding: Attica Region, Adens, S.A., Coordinator: C. A. Karavitis (2020).
India, Italy, Greece	2019- 2020	Strengthening education, research and innovation for climate smart crops in India/ AdaptNET. Cooperation for innovation and the exchange of good practices, Erasmus +. Coordinator AUA, Department of Plant Science, water stress indicators Development methodology and related web based ICT tools
Albania, Spain, Greece	2015-2018	Training Services for Drainage Boards (DBs) Contract No MAFCP/CS/009, World Bank to Ministry of Agriculture Rural Development and Water Administration, Albania, Planet S.A., Expert Team Leader. (2015-2018)
Cyprus	2015-2018	Climate Change Risk Assessment in Cyprus. Cyprus Department of the Environment. Contract no.: 22/2014, Partner in a Consortium of 4. Scientific Responsible and Coordinator in Agricultural University of Athens:. (2015-2018)
Brazil, Argentina, Mexico, Chile, Norway, Holland, Switzerland, Cyprus, Spain, Portugal, Greece	2011-2015	“Technologies For Water Recycling and Reuse In Latin America: Context, Assessment, Decision Tools and Implementable Strategies under an Uncertain Future (COROADO)”, E.C. Funded Leader :AUA, Participants: 13 Universities and Research Institutions, Funded: EC, FP7, Project Coordinator: C. A. Karavitis (2011-2015), http://www.coroado-project.eu/
Hungary, Slovenia, Croatia, Serbia, Bulgaria, Albania, Bosnia, FYROM, Romania, Greece	2009-2012	“Drought Management Centre For Southeastern Europe” (Dmcsee) Funded: E.C., South East Europe Transnational Cooperation Programme (SEE) Scientific Responsible in Agricultural University of Athens, WP4 coordinator: (2009 - 2012). http://www.dmcsee.org/

Greece	2008	Technical Support of the Central Water Resources Agency for the Preparation of Drought Management Strategies and Short Term Drought Response Plan in Greece. 10889/11/07 /2007 EPPER 2000-2006. Scientific Responsible in Agricultural University of Athens, Coordinator development of the methodology for Drought management (2008)
China, Capo Verde, Russia, Morocco, Tunisia, Italy, Mexico, Chile, Spain, Holland, Belgium, G. Britain, Portugal, Switzerland, Turkey, Greece	2007-2012	"Desertification Mitigation And Remediation Of Land". (DESIRE) E.C. funded, Integrated Project (IP) Participants: 28 Universities and Research Institutions, Scientific Responsible in Agricultural University of Athens, WB2 Coordinator: (2007 - 2012). http://www.desire-project.eu/
G. Britain, Spain, Serbia, Greece	2006-2010	"LOWLAND AGRICULTURAL WATER MANAGEMENT (LOLAqua) Internationally oriented M.Sc. course, TEMPUS JEP 40071-2005 E.C. Funded, University of Exeter, University of Novisad, University of Belgrade, Estacion Experimental del Aula Dei Zaragoza. Project Grant Holder, Scientific Responsible for Agricultural University of Athens, among other tasks development of web based water resources teaching classes . (2006 - 2010, http://lolaqua.polj.uns.ac.rs/
Italy, Greece	2005-2008	"Sustainable Use Of Water Resources And Rural Development In Drought Affected Areas". (IMAGE) E.C. Funded., development of drought categorization INTERREG III B ARCHIMED. Partner AUA (2005-2008), http://www.projectimage.eu .
Italy, Portugal, Spain, France, G. Britain, Holland, Greece	2005-2008	"Land care in desertification affected areas: from science towards application" (LUCINDA) Specific Support Action, E.C, (Water Use in Europe) Expert Author AUA (2005-2008).
Italy, Portugal, Spain, France, Morocco, Tunisia Cyprus, Greece	2004-2007	Network on Governance, Science and Technology for Sustainable Water Resource Management in the Mediterranean (Nostrum-DSS). Researcher, E.C. funded, DG XII NTUA (2004-2007)
Italy, Portugal, Spain, France, Morocco, Tunisia Cyprus, Greece	2002 - 2005	"Combating Desertification In Mediterranean Europe: Linking Science With Stakeholders. DESERTLINKS', EU funded. DG XII (EVK-2-CT-2001-00109). Partner AUA. (2002 - 2005).
Holland, Spain, Greece	2001 – 2004	"Automated Fire and Flood Hazard Protection System (Auto-Hazard Pro). Funding E.U., DG XII (EVG1-CT-2001-00057). Principal investigator in the study of flood management. Department

		of Geography, University of the Aegean (2001 – 2004).
Germany, France, Portugal, Italy, Israel, Cyprus, Greece	2001-2005	<i>"Developing Strategies for Regulating and Managing Water Resources and Demand in Water Deficient Regions (WaterStrategyMan)".</i> Funding: E.U., DG XII (EESD-ESD-3). Conducted by the Dep. of Chemical Engineering, National Technical University of Athens , Researcher, (2001 - 2005).
Italy, Portugal, Spain, France, Morocco, Tunisia Cyprus, Greece, Holland	1999-2001	<i>"Pan European Soil Erosion Risk Assessment (PESERA)"</i> Funding : E.U., DG XII (QLRT – 1999 – 1323). Researcher in Risk Analysis, Assessment of erosion and its causes (floods, desertification, etc., Conducted by the Laboratory of Soil Science, Agricultural University of Athens (1999 - 2001).
Bulgaria, Greece	1999-2000	<i>"Flood early warning system. I. Strymon river basin</i> K.A. 2302019". Principal investigator in the study of flood hydrology and flood early warning systems.. Funding by the Laboratory of Agricultural Hydraulics, Agricultural University of Athens (1999 - 2000).
Italy, Portugal, Spain, France, Morocco, Tunisia Cyprus, Greece	1996-1998	<i>"Mediterranean Desertification and Land Use"</i> . Funding : E.U., Medalus 3, DG XII (ENV 4 CT 95 - 0119). Principal investigator in the study of water resources and flood hydrology of Lesbos Island. Conducted by the Laboratory of Soil Science, Agricultural University of Athens (1996 - 1998).
USA	1994	<i>"Water Resources Sustainability and Environmental Engineering"</i> Funding : Natural Science Foundation (N.S.F.) . Researcher in analysis, criteria and synthesis for Integrated Environmental Impact Assessments, development of water resources Conducted by Dep. of Civil Engineering, Colorado State University , (1994).
USA	1991	<i>"Water in the Sand "</i> Funding : United States Army Corps of Engineers, Washington, D.C., USA . Water resources of Turkey, Iraq, Syria, Lebanon, Israel, Jordan and S. Arabia. Collaborator in the chapter on the Water Resources of Turkey, Iraq and Syria. Conducted by Dep. of Civil Engineering, Colorado State University , Font Collins, Co. USA. (1991).
USA	1991-1992	<i>"Water and Politics in the Balkans and the Middle East"</i> . Water Resources and Policy Study in the Balkans and the Middle East. In collaboration with the Institute of Policy and

		Management Athens (client: McArthur Foundation U.S.A. , 1991-92).
USA	1989 1991	"Computer Information Systems in Water Resources Management" Funding: National Science Foundation, (N.S.F.), Washington, D.C., U.S.A. (Contract No CES - 8619057).). Integrated drought management development of "XERASIA 1,2,3,4" Expert Systems in PROLOG. Conducted by Dep. of Civil Engineering, Colorado State University, Font Collins, Co. USA. (1989-1991).
USA	1989-1993	Engineered Closed Ecosystem for a Lunar Base, CEISS, National Aeronautics and Space Administration, (N.A.S.A.), Post Doctorate, Researcher in engineering water systems, Water Decision Support Systems and related ICT tools in a lunar base. Conducted by Dep. of Civil Engineering, Colorado State University, and Dep. of Civil Engineering University of California at Berkeley, CA, U.S.A. (1991 - 1993).
USA	1987-1991	Drought Control and Water Management in Humid Regions" . Funding: National Science Foundation (N.S.F.). Researcher in integrated water resources management. Conducted by Dep. of Civil Engineering, Colorado State University, U.S.A. (1987 - 1991).
USA	1987-1988	"Water Resources Development and Planning" Funding: United States Army Corps of Engineers, Washington, D.C., USA. Researcher in water resources management, conducted by Dep. of Civil Engineering, Colorado State University, U.S.A. (1987-1988).

NOTE The FP7-EC Research Program COROADO led by Agricultural University of Athens, Department of Natural Resources Development and Agricultural Engineering, Sector of Water Resources Management, **Coordinator Assoc. Professor, Christos A. Karavitis**, on the 10-11/06/2015 **EC-CELAC Summit Meeting** in Brussels <http://www.consilium.europa.eu/en/meetings/international-summit/2015/06/10-11/> was presented as one of the main examples of successful scientific cooperation between the two regions, to the **61 Heads of States** attending the meeting and included in the official Summit Report (p.15). In COROADO entitled "Technologies for Water Recycling and Reuse in Latin America Content: Assessment, Decision Tools and Implementable Strategies under an Uncertain Future" , www.coroado-project.eu and <http://ec.europa.eu/programmes/horizon2020/en/news/recycled-water-makes-splash>) there are participating 13 institutions from 11 countries (Argentina, Brazil, Chile, Cyprus, Greece, Mexico, Netherlands, Norway, Portugal, Spain and Switzerland).

5. PUBLICATIONS IN JOURNALS

1. Karavitis, C.A., Oikonomou, P.D. **Water Resources Management and Policy in Greece: Challenges and Options.** (2024). In: Darques, R., Sidiropoulos, G., Kalabokidis, K. (eds) *The Geography of Greece. World Regional Geography Book Series.* Springer, Cham. https://doi.org/10.1007/978-3-031-29819-6_7
2. Kalogeropoulos, K., D.E. Tsesmelis, A. Tsatsaris, E. Zervas, C.A. Karavitis, **Geospatial Insights into Greece's Desertification Vulnerability: A Composite Indicator Approach** *GeoHazards* 2024, 5(2), 374-392; <https://doi.org/10.3390/geohazards5020020>
3. Demetrios E Tsesmelis, Ioanna Leveidioti, Christos A Karavitis, Kleomenis Kalogeropoulos, Constantina G Vasilakou, Andreas Tsatsaris, Efthimios Zervas. **2023. Spatiotemporal Application of the Standardized Precipitation Index (SPI) in the Eastern Mediterranean.** *Climate* , 11(5), 95; <https://doi.org/10.3390/cli11050095>
4. Kyriakarakos, G.; Papadakis, G.; Karavitis, C.A., **2022. Renewable Energy Desalination for Island Communities: Status and Future Prospects in Greece.** *Sustainability*, 14, 8176. <https://doi.org/10.3390/su14138176>
5. Tsesmelis, Demetrios E., Karavitis, C. A., Kalogeropoulos, K., Zervas, E., Vasilakou, C. G., Skondras, N. A., Oikonomou, P. D., Stathopoulos, N., Alexandris, S.G., Tsatsaris, A., Kosmas, C., **2022. Evaluating the Degradation of Natural Resources in the Mediterranean Environment Using the Water and Land Resources Degradation Index, the Case of Crete Island,** *Atmosphere*, <https://www.mdpi.com/2073-4433/13/1/135#cite>
6. Demetrios E Tsesmelis, Constantina G Vasilakou, Kleomenis Kalogeropoulos, Nikolaos Stathopoulos, Stavros G Alexandris, Efthimios Zervas, Panagiotis D Oikonomou, Christos A Karavitis. **2022. Drought assessment using the standardized precipitation index (SPI) in GIS environment in Greece.** *Computers in Earth and Environmental Sciences*, pp.619-633, <https://doi.org/10.1016/B978-0-323-89861-4.00025-7>
7. Fassouli V., Karavitis C., Tsesmelis D.E. and Alexandris S., **Factual Drought Index-FDI. A composite index based on precipitation and evapotranspiration, 2021,** (<https://doi.org/10.1080/02626667.2021.1957477>) .
8. Oikonomou, P.D., Karavitis, C.A., Tsesmelis, D.E., Kolokytha, E.; R. Maia. **Drought Characteristics Assessment in Europe over the Past 50 Years.** *Water Resources Management*, Springer Nature B.V. (2020). <https://doi.org/10.1007/s11269-020-02688-0>
9. Skondras, N.A.; Tsesmelis, D.E.; Vasilakou, C.G.; Karavitis, C.A. **Resilience-Vulnerability Analysis: A Decision-Making Framework for Systems Assessment.** *Sustainability* 2020, 12, 9306.

10. Tsesmelis, D.E.; Skondras, N.A.; Khan, S.Y.A.; Kolokytha, E.; Karavitis, C.A. (2020). **Water, Sanitation and Hygiene (WASH) Index: Development and Application to Measure WASH Service Levels in European Humanitarian Camps**. *Water Resources Management*, 34, 2449–2470, doi:10.1007/s11269-020-02562-z.
11. Karavitis, C. A., Demetrios E. Tsesmelis, Panagiotis D. Oikonomou, Orestis Kairis, Constantinos Kosmas, Vassilia Fassouli, Coen Ritsema, Rudi Hessel, Victor Jetten, Nikolaos Moustakas, Branislav Todorovic, Nikolaos A. Skondras, Constantina G. Vasilakou, Stavros Alexandris, Elpida Kolokytha, Demetrios V. Stamatakis, Ruzica Stricevic, Emmanuel Chatzigeorgiadis, Jane Brandt, Nicky Geeson, Giovanni Quaranta, (2020). **A desertification risk assessment decision support tool (DRAST)**. *Catena*, 187, 104413, Elsevier Publishing.
12. Oertlé, E., C. Hugi, T. Wintgens and C.A. Karavitis (2019), **Poseidon—Decision Support Tool for Water Reuse**, *Water*, 11, 153.
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5. **“Technologies For Water Recycling And Reuse in Latin America: Context, Assessment, Decision Tools and Implementable Strategies under an Uncertain Future (COROADO)”**, Leader :AUA, Funded: EC, FP7, **Project Coordinator and Chief Editor in all the 26 Project Reports and Deliverables**, 2011-2015, <http://www.coroado-project.eu/>
6. **“Drought Management Centre For Southeastern Europe” (Dmcsee)** Funded: E.C., South East Europe Transnational Cooperation Programme (SEE). Reports 4.1, 4.2, 4.3, 4.4 and participation in all the rest project reports accordingly, 2009-2012. <http://www.dmcsee.org/>
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15. **Master course material: "Water Resources Management", B' Semester, Specialization: Energy Management & Environmental Protection Systems, Department: Chemical Engineering NTUA & Technology & Production Systems, University of Piraeus (2004 -)**
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1. Expert for the ***Implementation of Articles 11, 13 and 15 of the Water Framework Directive (2000/60/EC) in Cyprus***. T.A.Y., YPGEFPP, Cyprus, 2008- 2011.
2. ***Development of Systems and tools for the Water Resources Management of the Water basins of Western Greece, Eastern Sterea Greece, Thessaly and Epirus for the Implementation of the WFD 60/2000***. 2003-2005, (Expert Scientific Advisor), Ministry of Development, Athens, Greece.
3. ***Final Study for the construction of Myrtos Dam***. Expert Consultant, G. Karavokyris & Partners, Ltd., Ministry of Environment, City Planning and Public Works 2002.
4. ***Final Study for the construction of Kalamaukianos Dam***. Expert Consultant for the construction,, G. Karavokyris & Partners, Ltd., Ministry of Environment, City Planning and Public Works, 2002.
5. ***Environmental Impact Assessment study for the construction of Myrtos Dam***. Expert Team Leader, G. Karavokyris & Partners, Ltd., Ministry of Environment, City Planning and Public Works 2002.
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7. ***Environmental Impact Assessment study for the construction of two Hydropower Stations, Vare and Euenos***. Ministry of Environment, City Planning and Public Works 2002. (Expert Team Leader)
8. ***Study of the Olympic Equestrian Center and the New Athens Horse Racing Track***. GEKAT A.T.E., IRIS A.E., ODON & ODOSTROMATON A.E., A.T.E. GNOMON A.E. Expert Consultant for the construction, Coordinator of the water resources and water infrastructure study teams. Ministry of Culture, G.S.A., 2001.
9. ***Environmental Impact Assessment study for the Water supply of Aigina and Agistrion islands***. Expert Consultant, G. Karavokyris & Partners, Ltd., EYDAP, 2001.
10. ***Preliminary study for the Water supply of Aigina and Agistrion islands***. Expert Consultant for the construction, G. Karavokyris & Partners, Ltd, EYDAP, 2001.
11. Expert Permitting Manager for the study of ***“Tailings Management Facilities of the Olympias Goldmine”, Chalcidice Prefecture***, Hellenic

Gold S.A.. TVX HELLAS. In collaboration with SNC – Lavalin America, Canada (2000-2001).

12. ***Environmental Impact Assessment study for the construction of Eleutheres Dam.*** Expert Consultant, G. Karavokyris & Partners, Ltd Client: Kavala Prefecture, 1999.
13. ***“Study of the general layout for the Olympic Facilities in Faleron.*** Expert Consultant for the construction,, Client: Ministry of Env. Urban Planning and Public Works (1998).
14. Expert Project Manager for the **Master Plan formulation for the Environmental Rehabilitation of the RAMSAR protected Lake Koronia wetland** in Thessaloniki. The contract was awarded by the EU Cohesion Fund and it involved data collection and analysis on water overabstraction and agricultural, domestic and industrial pollution that have affected the wetland ecosystem. Policy and engineering measures have been drafted in a Masterplan and following up of implementation is now being carried out and will continue until at least the year 2000 (in Association with Knight Piesold Ltd). (1998).
15. ***Environmental Impact Assessment study*** for the flood protection works of Saint George torrent. Consultant, G. Karavokyris & Partners, Ltd Client: EYDAP (1998).
16. ***Environmental Impact Assessment study*** for the construction of Patra water supply system from rivers Peiros and Parapeiros. Team Leader, G. Karavokyris & Partners, Ltd Client: Ministry of Env. Urban Planning and Public Works (1998).
17. ***Water resources management of the new Athens Airport. Project Manager,*** Flood protection works, water supply, irrigation and wastewater systems, Advisor for the construction in Association with Knight Piesold Ltd (1998).
18. ***EGNATIA ROAD. Flood Protection works from Metsovitikos River.*** . Expert Consultant for the construction,, G. Karavokyris & Partners, Ltd EGNATIA ROAD S.A., (1997).
19. ***Design of Kazantzis Dam.*** Feasibility study and detailed design for a 43m high, 1120m long earth dam for irrigation. Expert Consultant, G. Karavokyris & Partners, Ltd Client: Regional Authority for Eastern Macedonia and Thrace, (1993-1997).
20. **Environmental Impact Assessment Study for the Coarse Material Collection Works for Evinos Dam** (client: Evinos J.V.). 1996.
21. ***Water Supply Study for the city of Patras from the rivers Peiros and Parapeiros*** (Expert Advisor for the construction,: Ministry of Env. Urban Planning and Public Works). 1996.

22. ***Preliminary Design for the construction of Eleutheres Dam.*** 37 m high), Expert Consultant, G. Karavokyris & Partners, Ltd Kavala Prefecture, 1995.
23. ***Environmental Impact Assessment studies for the construction of: Prinos lined reservoir, Theologos lined reservoir, Limenaria lined reservoir,*** Thassos Island. Expert Team Leader, G. Karavokyris & Partners, Ltd Client: Ministry of Agriculture, 1995.
24. ***Environmental Impact Assessment study for the construction of Panormos lined reservoir,*** Skopelos Island. Expert Team Leader, G. Karavokyris & Partners, Client : Ministry of Agriculture 1995.
25. ***Environmental Impact Assessment study for the construction of Kastania reservoir,*** Allonessos Island. Expert Team Leader, G. Karavokyris & Partners, Client : Ministry of Agriculture 1995.
26. ***Environmental Impact Assessment study for the construction of Ferekampos lined reservoir,*** Skyros Island. Expert Team Leader, G. Karavokyris & Partners, Client : Ministry of Agriculture 1995.
27. ***Final design and tender documents for storage dams in the islands of Skyros (23 m high), Skopelos (15 m high) and Alonnisos (21 m high).*** Expert Consultan for the construction, t, G. Karavokyris & Partners, Ministry of Agriculture, 1994.
28. ***Final design and tender documents for storage reservoirs in the island of Thasos. Design of three membrane lined reservoirs*** with storage capacities between 500,000 and 600,000 cubic meters. Expert Consultant for the construction, G. Karavokyris & Partners,, Ministry of Agriculture, 1993-94.
29. ***Preliminary Study of Waste Water and Storm Water Systems for the Thriassion Plain.*** Capacity of 110.000 inhabitants including industrial loads (Expert Consultant for the construction, G. Karavokyris & Partners, client: Athens Water Authority).
30. ***Environmental Impact Assessment study for the construction of an embankment and the raising of the water level of Voulkaria lake (W. Greece).*** Expert Consultant, G. Karavokyris & Partners, Ltd, Client : Ministry of Agriculture, 1993-94.
31. ***Final Study of the Pipeline of the Reresi junction – Mornos reservoir.*** Length 12 km. Expert Consultant for the construction, G. Karavokyris & Partners, Ltd, Client: Ministry of Env. Urban Planning and Public Works- YPEHODE D6-, 1993.
32. ***Study of the Pipeline of the Trichonis lake – Mornos reservoir.*** Length 48.5 km Expert Consultant EYDAP, 1993.

33. **Water Infrastructure Study (irrigation, water supply, wastewater and stormwater systems) of the Environmental Education Park**, "Ktema Vassilissas", Athens. Expert Consultant for the construction,, G. Karavokyris & Partners Consulting Engineers, Ltd. 1993.
34. **Feasibility study of Skardana dam Chios**. (39 m high). Flood Hydrology, Spillway etc. Expert Consultant, G. Karavokyris & Partners, Ltd, Client: Chios Prefecture.. 1993.
35. **Development of water resources for irrigation and flood protection works for the Ierapetra region (S.E. Crete)**. Two small dams for river water abstraction, conveyance pipeline, regulation tanks, flood retention dam and other flood protection works. Expert Consultant for the construction,, G. Karavokyris & Partners, Ltd, Ministry for the Environment, City planning and Public Works, 1993.
36. **Final design for the Evinos water supply for Athens scheme. (124 m high dam and auxiliary works, flood hydrology, spillway etc.)** Expert Advisor for the construction, Client : EVINOS J.V. Budget 50 Million Euros. G. Karavokyris & Partners Consulting Engineers, Ltd., 1992.

10. MAJOR INTRERNATIONAL PROJECTS STUDIES

1. Expert for the **Implementation of Articles 11, 13 and 15 of the Water Framework Directive (2000/60/EC) in Cyprus**. T.A.Y., YPGEFPP, Cyprus, 2008- 2011.
2. **Water Resources Potential of Cyprus''**. Inventory of water resources, consumption analysis and demand forecasting of demand for irrigation and urban water supply. U.S. Army Corps of Engineers and Colorado State University, Fort Collins, Colorado, U.S.A., 1992.
3. **"EIA of Denver New International Airport"**. Collaborator in the evaluation of the Environmental Impacts Assessment (Construction, Operation and Management), Colorado State University, Fort Collins, Colorado U.S.A.,1991
4. **"Water in the Sand"**. Collaborator in the water resources chapters of Turkey, Iraq and Syria U.S. Army Corps of Engineers, Wa. D.C., U.S.A.,1991.
5. **Knowledge Based Systems for Drought Management**. Research Project **"Computer Information Systems in Water Resources Management"** Research on a drought management plan and development of the "XERASIA 1,2,3,4" Expert System. (Analysis, software). Decision support system for the management of water resources in a regime of multiple and conflicting users (irrigation, water supply, industry) under drought conditions. Programming in PROLOG. Department of Civil Engineering, Colorado State University, U.S.A., 1991

6. ***"Water and Politics in the Balkans and the Middle East"***. Contractor: Institute of Policy and Management. Responsible for the Water Resources Study of Turkey, Syria, Iraq and Lebanon. Commissioned by Mc Arthur Foundation, U.S.A. , 1991-92.
7. **Engineered Closed Ecosystem for a Lunar Base**, CEISS, National Aeronautics and Space Administration, **(N.A.S.A.)**, Post doctorate, Researcher in engineering water systems planning, Water Decision Support System and related ICT tools in a lunar base. Conducted by Dep. of Civil Engineering, Colorado State University, and University of California at Berkeley, CA, U.S.A. (1991 - 1993).
8. ***"Water Resources and Environmental Engineering"*** Participation in the Development of Knowledge Based System for Integrated Impact Assessment, N.S.F., 1991.
9. ***"Study of the Denver Basin aquifers"***, Lead Investigator in field and laboratory research for the assessment of the hydraulic and hydrogeological characteristics of the Dawson Aquifer in Denver Basin, Colorado, Baski Co., Lakewood, Colorado, U.S.A., 1984 - 85.